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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,384	09/16/2003	Jun Lu	COMMV.008A	1609
20995 7590 11/29/2007 KNOBBE MARTENS OLSON & BEAR LLP				
2040 MAIN ST	REET	HASSAN, AURANGZEB		
FOURTEENTI IRVINE, CA 92			ART UNIT	PAPER NUMBER
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			NOTIFICATION DATE	DELIVERY MODE
			11/29/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)	0		
Office Asking Occurrence	10/663,384	LU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Aurangzeb Hassan	2182			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. nely filed the mailing date of this communication D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>17 Secondary</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Example 1.	action is non-final. nce except for formal matters, pro		s		
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Disposition of Claims					
4) ⊠ Claim(s) <u>1,2,5,6,9-15,19,20 and 22-26</u> is/are per 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1,2,5,6,9-15,19,20 and 22-26</u> is/are re 7) ☐ Claim(s) is/are objected to:	vn from consideration.				
8) Claim(s) are subject to restriction and/or	election requirement.	•			
Application Papers					
9) The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the I	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	•		(d).		
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
•	•				
Attachment(s)			•		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 2, 5, 6, 9 15 and 19 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amundson et al. (US Patent Number 6,154,852 hereinafter "Amundson").
- 3. As per claim 1 Amundson teaches a method, system and a recording medium comprising:

performing a plurality of primary copies of data stored in a data source, wherein said performing of at least one of the plurality of primary copies further comprises (multiple requests are done simultaneously, column 8, lines 10 – 15 and recovery is done for one or more objects, column 12, lines 14 – 17):

dividing the data in the data source into at least a first portion of data and a second portion of data (File Data BLK, element 408, figure 4, column 4, lines 26 – 30);

transferring the first and second portion of data from the data source to a first storage medium and a second storage medium (tape 1 and 2, element 118, figure 2)

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using a first data stream and a second data stream respectively (column 3, lines 22 – 49);

receiving user input indicating whether or not the first portion of data and second portion of data should be combined (user specifies when to begin recovery of data, combining first and second portion of data, column 12, lines 14 - 17);

determining if the first portion of data and the second portion of data can be combined (collaborative file ID 150 provides for a validation of the recovery data recombination process, figure 2, column 6, lines 1 – 22); and

if the user input indicates that the first portion of data and the second portion of data should be combined (in order to begin recovery the user must initiate the process, column 12, lines 14 - 17), and if first portion of data and the second portion of data can be combined, transferring the first and second portion of data from the first and second storage medium to a third storage medium using a third combined data stream (recovery can be performed using any number of tape drives from a single, column 12, lines 13 - 34).

Amundson teaches various types of data in the data stream but does not explicitly teach identifying the multiple file types.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the method of Amundson to explicitly disclose the different processing of the multiple file types already included therein. One of ordinary skill in the art would be motivated to make such modification in order to enhance data distribution in parallel devices (column 6, lines 32 – 34).

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4. Amundson as modified by the teachings of claim 1 above, as per claims 9 and 11 Amundson teaches a system and a recording medium comprising:

copying data from a data source to a plurality of storage media wherein said copying comprises:

dividing the data in the data source into at least a first portion of data and a second portion of data (File Data BLK, element 408, figure 4, column 4, lines 26 – 30);

transferring the first and second portion of data from the data source to a first storage medium and a second storage medium (tape 1 and 2, element 118, figure 2) using a first data stream and a second data stream respectively (column 3, lines 22 – 49);

receiving user input indicating whether or not the first portion of data and second portion of data should be combined (user specifies when to begin recovery of data, combining first and second portion of data, column 12, lines 14 – 17);

determining if the first portion of data and the second portion of data can be combined (collaborative file ID 150 provides for a validation of the recovery data recombination process, figure 2, column 6, lines 1-22) based on files types of data contained by the first and second portions of data (column 6, lines 30-53); and

if the user input indicates that the first portion of data and the second portion of data should be combined (in order to begin recovery the user must initiate the process, column 12, lines 14 - 17), and if first portion of data and the second portion of data can

be combined, transferring the first and second portion of data from the first and second storage medium to a third storage medium using a third combined data stream (recovery can be performed using any number of tape drives from a single, column 12, lines 13 – 34).

As per claim 9, a management server (element 102, figure 1), a media agent connected to the management server (I/O Adapter, element 114), said management server storing a storage policy (figure 5b), the media agent is configured to access the storage policy to determine if the first and second portions of data should be combined (validation of the collaboration, column 6, lines 1 – 16), a plurality of storage media connected to the media agent (tape drive 1 – N, element 118, figures 1 and 2), and a data source (file data object, element 136, figure 2) connected to the media agent.

5. Amundson as modified by the teachings of claim 1 above, as per claim 12, Amundson teaches a method for transferring data in a storage system comprising:

dividing a data source into at least a first and a second portion of data (File Data BLK, element 408, figure 4, column 4, lines 26 – 30);

transferring the first and second portion of data from the data source to a first number of pieces of storage media (multiple tape drives, element 118, figure 1 and 2, column 3, lines 22 - 49);

accessing user input regarding whether the first and second portions of data should be combined (user specifies when to begin recovery of data, combining first and second portion of data, column 12, lines 14 - 17);

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determining if the first portion of data and the second portion of data are combinable (collaborative file ID 150 provides for a validation of the recovery data recombination process, figure 2, column 5, lines 1-22) based on files types of data contained by the first and second portions of data (column 6, lines 30-53); and

transferring the first and second portion of data from the first number of pieces of storage media to a second number of pieces of storage media, the second number being less than the first number(recovery can be performed using any number of tape drives from a single, column 12, lines 13 – 34).

The examiner interprets the first and second stream, as Amundson teaches, to represent the connection between the first two tape drives in the backup process respectively. The examiner further interprets the recovery process combining at least the first and second storage media into the third single recovery tape drive media.

Amundson teaches a system where a primary set of streams in used in a backup process and upon completion a recovery process combines data from the backup tapes into the recovery tapes.

6. Amundson as modified by the teachings of claim 1 above, as per claims 2 and 10 Amundson teaches a method and a system, wherein the transfer from the first and second storage medium to the third storage medium is performed in chunks (split into reasonable chunks, column 11, lines 36 – 47).

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7. Amundson as modified by the teachings of claim 1 above, as per claim 5, Amundson teaches a method wherein the transfer using the third data stream is performed based on a client identification of the first and second portion of data (Collaborative File ID, element 150, figure 2, column 5, lines 25 – 32).

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8. Amundson as modified by the teachings of claim 1 above, as per claim 6, Amundson teaches a method wherein the transfer using the third data stream is performed based on respective stream numbers of the first and second streams (column 6, lines 1 - 14).

The collaborative file id allows for proper data stream recombination in the recovery stage as taught by Amundson.

- 9. Amundson as modified by the teachings of claim 1 above, as per claim 13, Amundson teaches a method additionally comprising providing a user notification if the first portion of data and the second portion of data cannot be combined (status for user, column 5, lines 7 18).
- 10. Amundson as modified by the teachings of claim 1 above, as per claim 14, Amundson teaches a method wherein the first portion of data is associated with a first application and the second portion of data is associated with a second application (multiple user applications 131, figure 2).

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11. Amundson as modified by the teachings of claim 1 above, as per claim 15,

Amundson teaches a system wherein the first storage medium has a faster access time
than the third storage medium (faster access time of the first storage medium can be
modified at the user's discretion to achieve faster backup and restore, column 1 lines 29

– 32).

- 12. Amundson as modified by the teachings of claim 1 above, as per claim 19, Amundson teaches a system comprising an archive module configured to store at least one storage policy relating to transferring the first and second portions of data (storage policy is the save/restore data policy, column 4, lines 26 55).
- 13. Amundson as modified by the teachings of claim 1 above, as per claim 20, Amundson teaches a system wherein the media agent is further configured to access the storage policy to determine if the first portion of data and the second portion of data are combinable (collaborative file ID 150 provides for a validation of the recovery data recombination process, figure 2, column 5, lines 1 22).
- 14. Amundson as modified by the teachings of claim 1 above, as per claim 21, Amundson teaches a method comprising deleting the other of the plurality of primary copies of the data source data (as interpreted from the 35 U.S.C. 112 rejection above, loss of media in the process, column 6, lines 61 65).

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15. Amundson as modified by the teachings of claim 1 above, as per claim 22, Amundson teaches a method wherein the user input is stored in a storage policy (in order to begin recovery the user must initiate the process, column 12, lines 14 - 17 which dictates and is in the storage policy).

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- 16. Amundson as modified by the teachings of claim 1 above, as per claim 23, Amundson teaches a method wherein the storage policy further maps the first portion of data and second portion of data to physical locations of, respectively the first storage medium and the second storage medium (physical tape drives are allocated and load balancing utilizes descriptors for mapping the portions of data, column 3, lines 50 67).
- 17. Amundson as modified by the teachings of claim 1 above, as per claim 24, Amundson teaches a method comprising providing a graphical user interface for receiving the user input (User Interface 110, figure 1).
- 18. Amundson as modified by the teachings of claim 1 above, as per claim 25, Amundson teaches a method wherein said determining if the first portion of data and the second portion of data can be combined comprises identifying the type of data in the first and second portions of data (type has been identified for writing, column 6, lines 35 38).

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19. Amundson as modified by the teachings of claim 1 above, as per claim 26, Amundson teaches a method wherein said receiving comprises presenting the user with a form element through the user interface, requesting whether or not the first and second portions of data should be combined (via user interface adapter 110, figure 1, user makes selections, column 12, lines 13 – 55).

Response to Arguments

20. Applicant's arguments with respect to claims 1, 2, 5, 6, 9 - 15 and 19 - 25 have been considered but are most in view of the new ground(s) of rejection.

Examiner's Comments

21. Examiner notes the change of address and power of attorney, have been adjusted to reflect the appropriate customer number and address.

Conclusion

22. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aurangzeb Hassan whose telephone number is (571) 272-8625. The examiner can normally be reached on Monday - Friday 9 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Tsai can be reached on (571) 272-4176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SUPERVISORY PATENT EXAMINER